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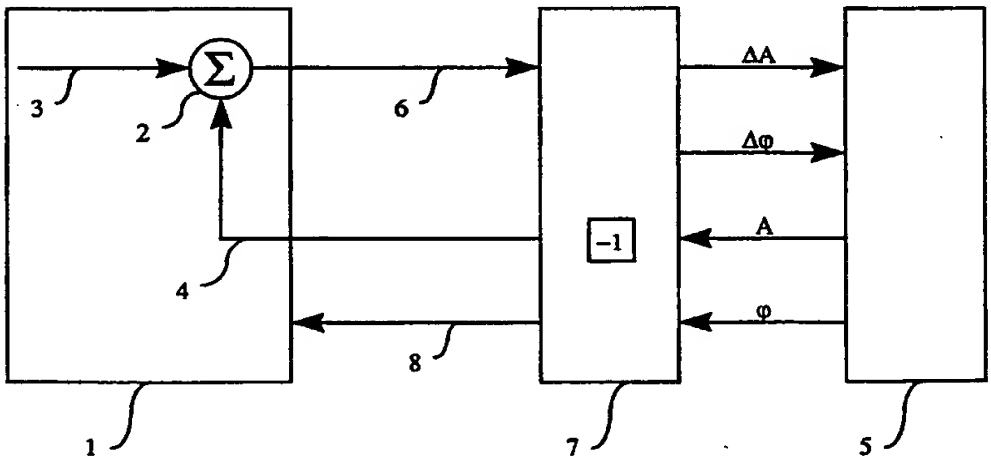

(57) Abstract

A method for simulating an actual missile, by means of a missile simulator, aircraft system which comprises a weapons system (1), where the missile is controlled from the weapons system (1) by a error signal (6) in a control loop by means of the said error signal (6) positioning a target seeker in the missile and through the sending back of the target seeker's position to the weapons system via an actual value signal (8), where a) the target seeker in the missile is commanded by the weapons system (1) to adopt a predetermined position, b) the missile simulator measures the control loop's error signal (6), generates an actual value for the position of the target seeker and sends the actual value (8) to the weapons system (1), c) the weapons system (1) calculates a new error signal (6) for the control loop and where d) steps b to c are repeated during the test. By using the method, an actual missile is not needed during the testing.

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